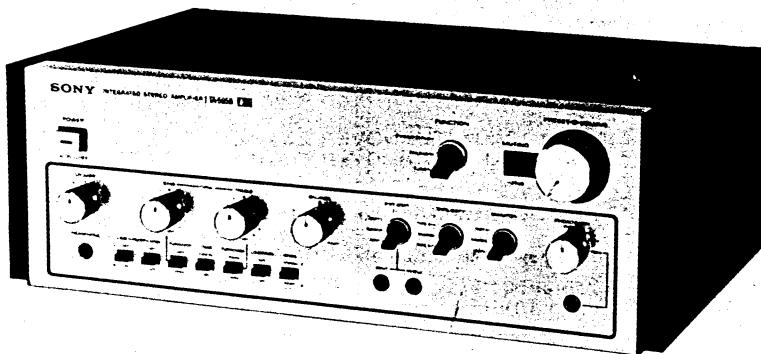


# TA-5650

DEGA V48/0 USA Model  
Canada Model  
UK Model  
AEP Model



Discard TA-5650 service manual previously  
issued for UK and AEP Models.  
This service manual contains former information.

## INTEGRATED STEREO AMPLIFIER

### SPECIFICATIONS

#### GENERAL

**Power Requirements:** 120 V ac, 60 Hz (USA and Canada Model)  
110, 127, 220 or 240 V ac adjustable, 50/60 Hz (UK and AEP Model)

**Power Consumption:** 160 W (USA Model)  
320 VA (Canada Model)  
440 W (UK and AEP Model)

**Dimensions:** Approx. 460(w) x 168(h) x 323(d) mm  
18 $\frac{1}{8}$ (w) x 6 $\frac{5}{8}$ (h) x 12 $\frac{3}{4}$ (d)  
inches  
Including projecting parts and controls

**Weight:** Approx. 13.4 kg, 29 lb 9 oz (net)  
Approx. 16 kg, 35 lb 4 oz (in shipping carton)

#### POWER AMPLIFIER SECTION

**Continuous RMS Power Output:** (less than 0.1 % THD, both channels driven simultaneously)  
At 1 kHz  
60 + 60 W (8  $\Omega$ )  
50 + 50 W (4  $\Omega$ )  
At 20 Hz – 20 kHz  
50 + 50 W (8  $\Omega$ )  
according to DIN 45500  
55 + 55 W (8  $\Omega$ )

**Dynamic Power Output:** (IHF constant power supply method)  
160 W (8  $\Omega$ )  
140 W (4  $\Omega$ )

**Power Bandwidth (IHF):** 5 – 40,000 Hz

#### Harmonic Distortion:

Less than 0.1 % at rated output  
Less than 0.08 % at 1 W output

#### IM Distortion: (60 Hz : 7 kHz = 4 : 1)

Less than 0.1 % at rated output  
Less than 0.08 % at 1 W output

#### Frequency Response (at 1 W output):

2 Hz – 100 kHz  $\pm$  0 dB

#### S/N Ratio:

Greater than 110 dB, short-circuited input

#### Residual Noise:

Less than 0.02  $\mu$ W (8  $\Omega$ )

#### Damping Factor:

50 (8  $\Omega$ , at 1 kHz)

#### Inputs:

POWER INPUT  
Sensitivity 1 V RMS (for rated output), impedance 50 k $\Omega$

**Outputs:** SPEAKER terminals A, B  
Accept speakers of 4  $\Omega$  or more  
HEADPHONES jack  
Accepts low-and high-impedance stereo headphones

— continued on page 2 —

0 dB = 0.775 V

**SONY**  
**SERVICE MANUAL**

**PREAMPLIFIER SECTION**

**Harmonic Distortion:** Less than 0.05 % at rated output  
**IM Distortion:** Less than 0.05 % at rated output  
 (60 Hz : 7 kHz = 4 : 1)  
**Frequency Response:** PHONO 1, 2 RIAA equalization  $\pm 0.5$  dB  
 TUNER  
 AUX 1, 2, 3  
 TAPE 1, 2  
 REC/PB (input)  
 EXT ADPT 1, 2 (input) } 10 Hz - 100 kHz  $\pm 0$  dB  
 (TONE: CANCEL)

**Tone Controls:** BASS:  
 $\pm 10$  dB at 50 Hz (TURNOVER 250 Hz)  
 $\pm 10$  dB at 100 Hz (TURNOVER 500 Hz)  
 TREBLE:  
 $\pm 10$  dB at 10 kHz (TURNOVER 2.5 kHz)  
 $\pm 10$  dB at 20 kHz (TURNOVER 5 kHz)

**Filters:** LOW:  
 12 dB/octave attenuation below 30 Hz  
 HIGH:  
 12 dB/octave attenuation above 9 kHz

**Loudness switch:**  
 (att. 30 dB)  
 + 10 dB at 50 Hz  
 + 3 dB at 10 kHz

**Inputs:**

	Sensitivity	Impedance	Maximum input capability*	S/N (weighting network)
PHONO 1, 2	2.5 mV	50 k ohms	300 mV	greater than 70 dB (B)
AUX 1, 2, 3 TAPE 1, 2 REC/PB (input) EXT ADPT 1, 2 (input)	150 mV	250 k ohms	—	greater than 90 dB (A)

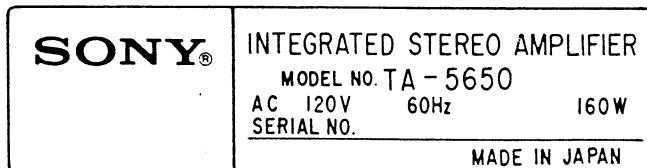
\* The maximum input capability is measured at a 0.05 % harmonic distortion.

**Outputs:**

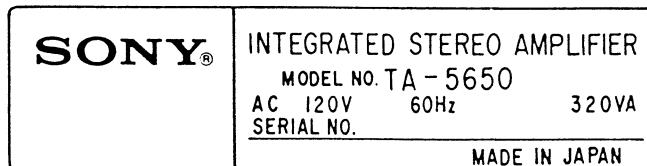
	Output voltage	Impedance
REC OUT 1, 2	150 mV	4.7 k ohms
PRE OUTPUT	1 V	1 k ohm
REC/PB	17 mV	82 k ohms
EXT ADPT 1, 2	150 mV	4.7 k ohms

**Specification Labels:**

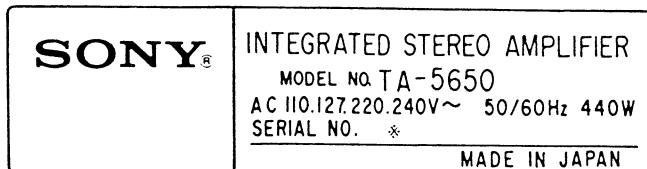
USA Model



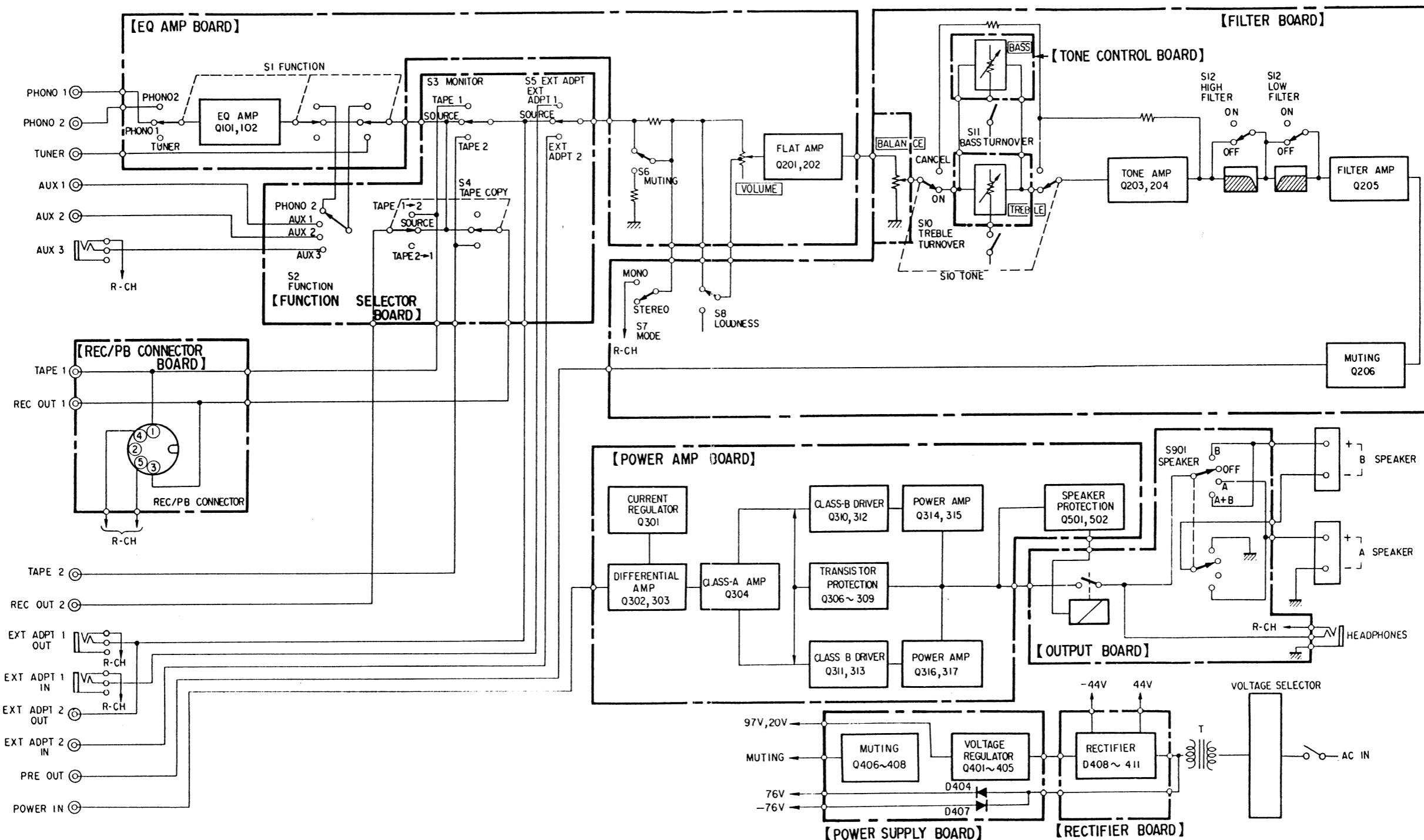
Canada Model



UK and AEP Models



Note: \* UK Model: Serial No. 600,001 and later  
 AEP Model: Serial No. 500,001 and later

SECTION 1  
BLOCK DIAGRAM

## SECTION 2 ADJUSTMENT

Note: Turn the power switch on and allow about five minutes for warm-up the set.

### 2-1. 20 V POWER VOLTAGE ADJUSTMENT

With no input signal, adjust RT401 so that the emitter voltage of Q403 becomes 20 V.

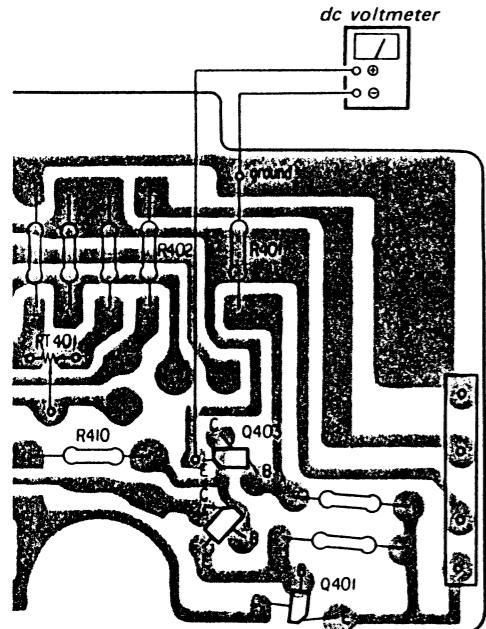


Fig. 2-1. 20 V power voltage adjustment

### 2-2. 97V POWER VOLTAGE CONFIRMATION

After 20 V power voltage adjustment, confirm that the emitter voltage of Q401 shows  $97 V \pm 3 V$ .

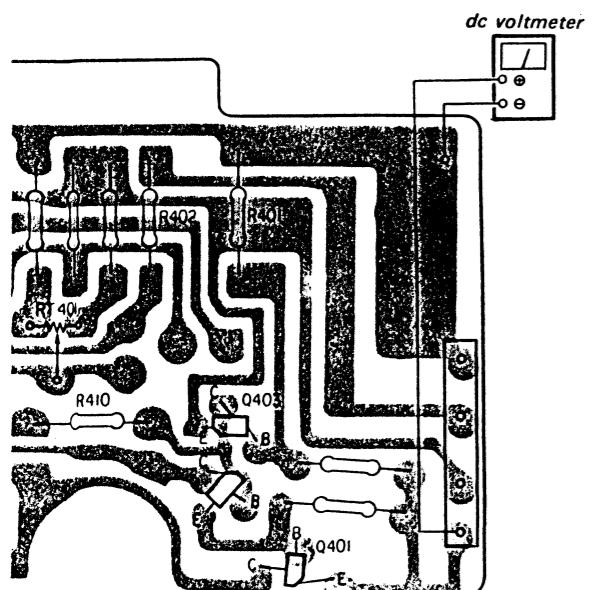


Fig. 2-2. 97V power voltage confirmation

### 2-3. CONFIRMATION OF DC BALANCE VOLTAGE

1. Set the SPEAKER switch to "A" position.
2. Connect the dc voltmeter across the SPEAKER OUT "A".
3. Confirm that the dc voltage at SPEAKER OUT "A" shows  $0V \pm 50 mV$ .

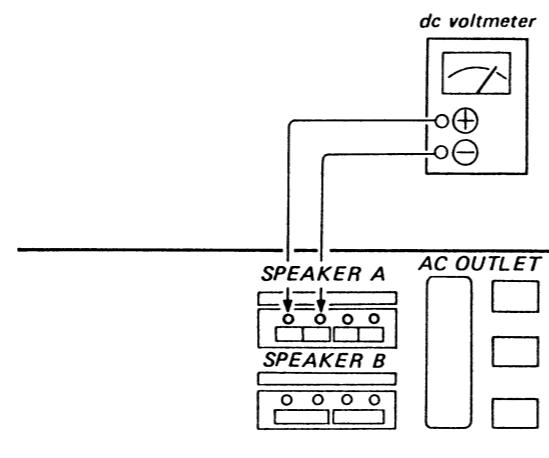


Fig. 2-3. Confirmation of dc balance voltage

### 2-4. DC BIAS ADJUSTMENT

Adjust RT301 and RT351 for 90 mV reading on the meter with no input signal.

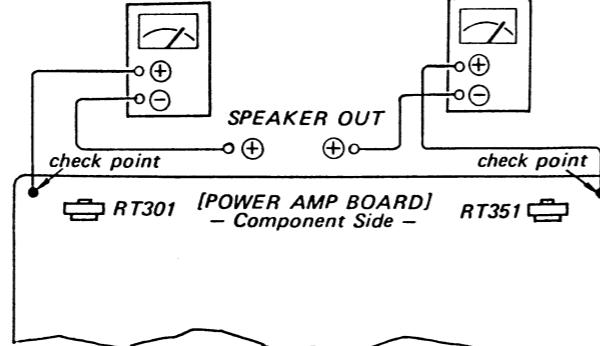


Fig. 2-4. DC bias adjustment

### 2-5. CHASSIS LAYOUT

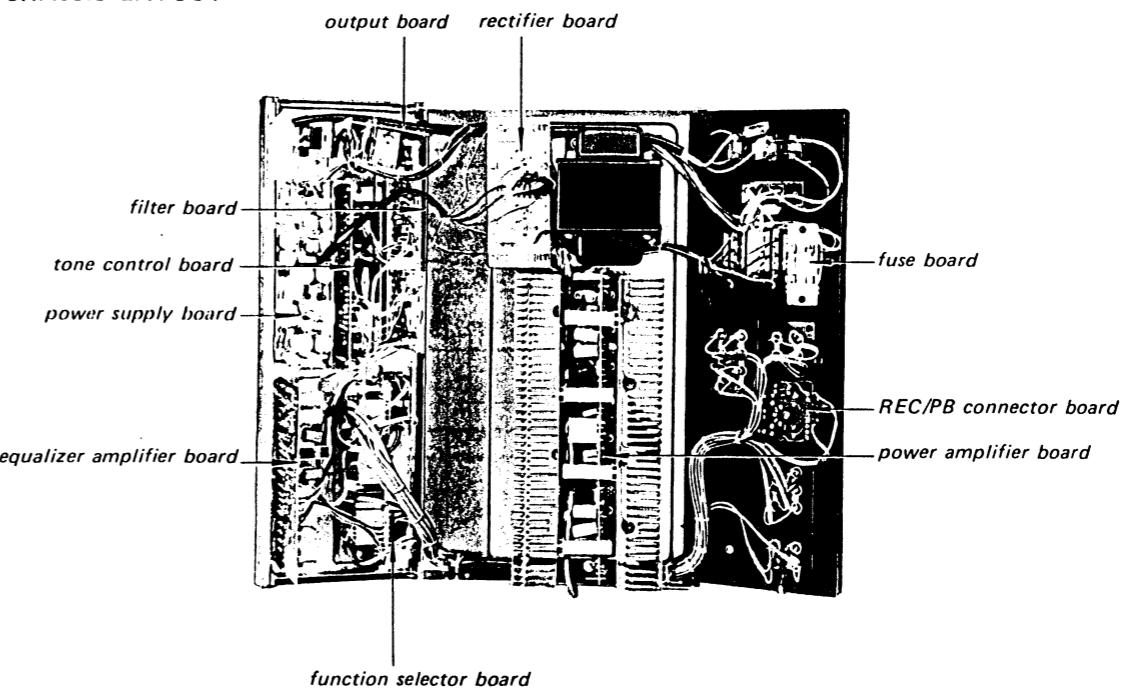
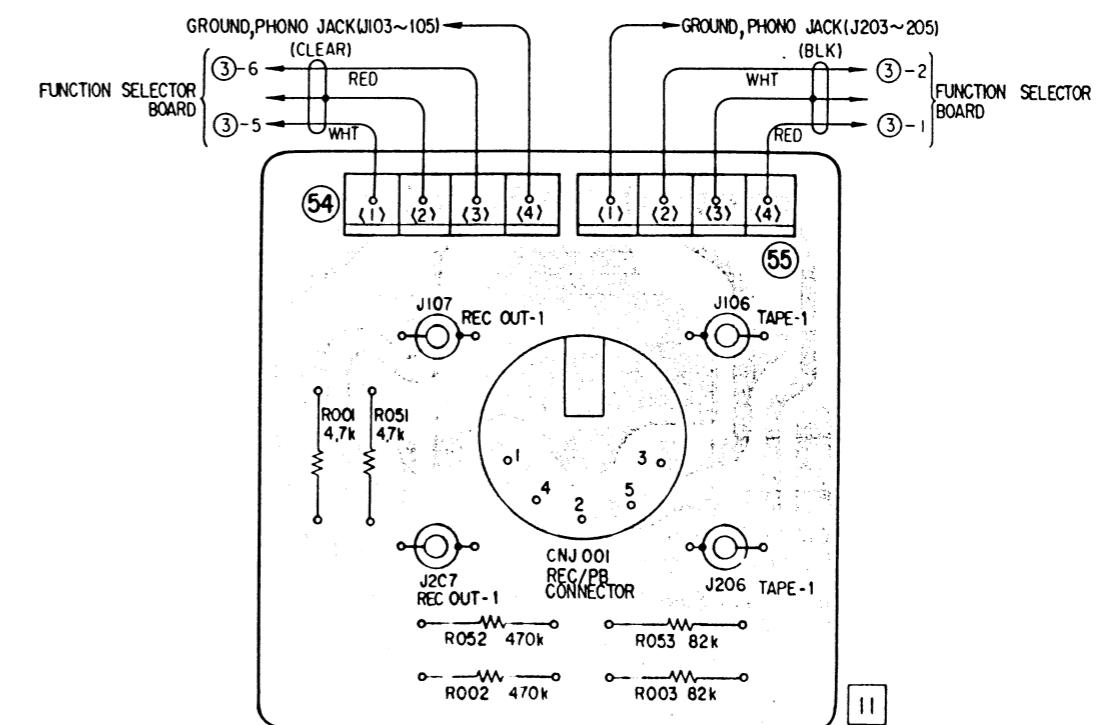


Fig. 2-5. Chassis layout

## SECTION 3 MOUNTING AND SCHEMATIC DIAGRAMS

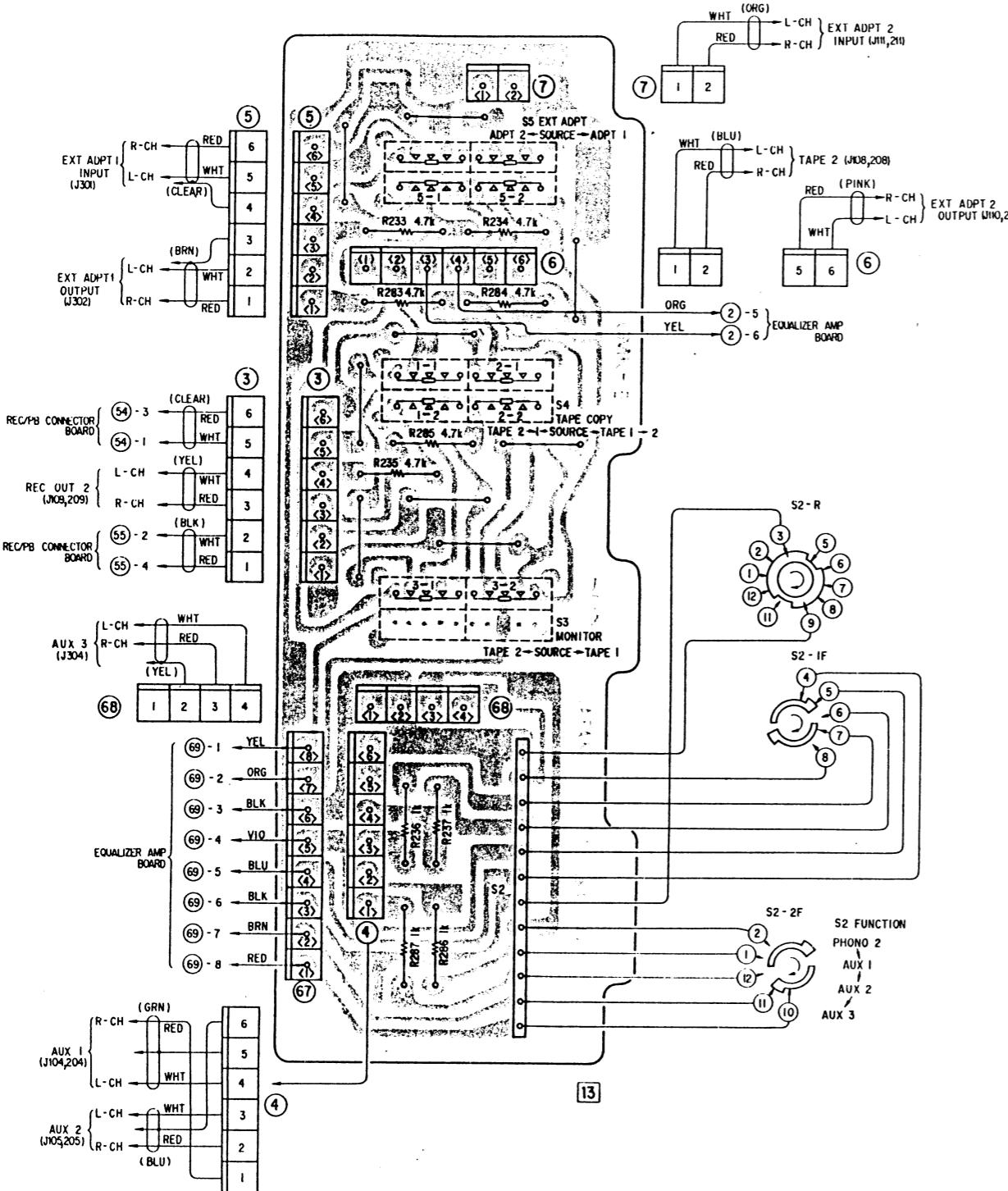
### 3-1. MOUNTING DIAGRAM – REC/PB CONNECTOR BOARD –

– Conductor Side –



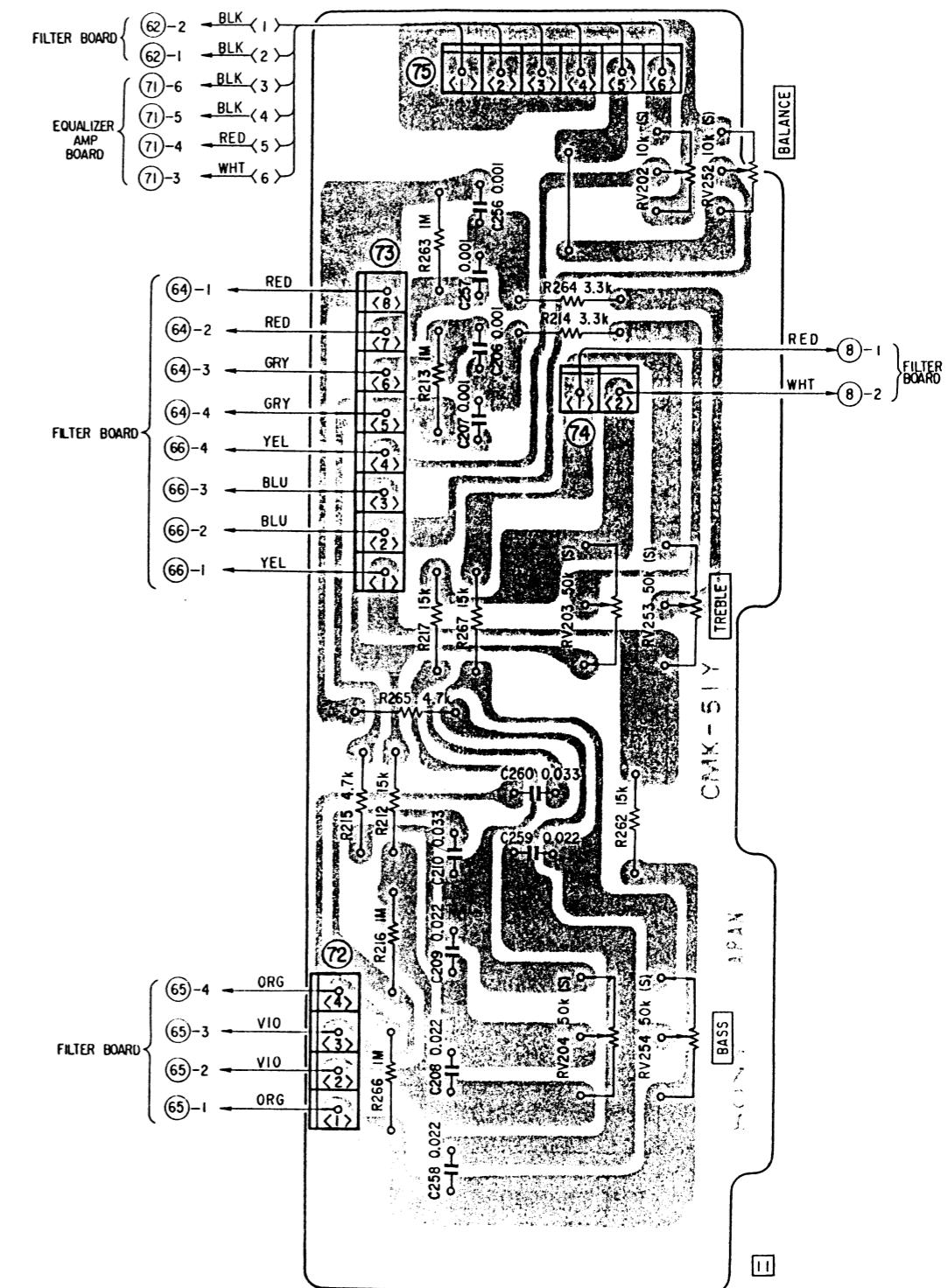
3-2. MOUNTING DIAGRAM – FUNCTION SELECTOR BOARD –

– Conductor Side –



3-3. MOUNTING DIAGRAM – TONE CONTROL BOARD –

– Conductor Side –

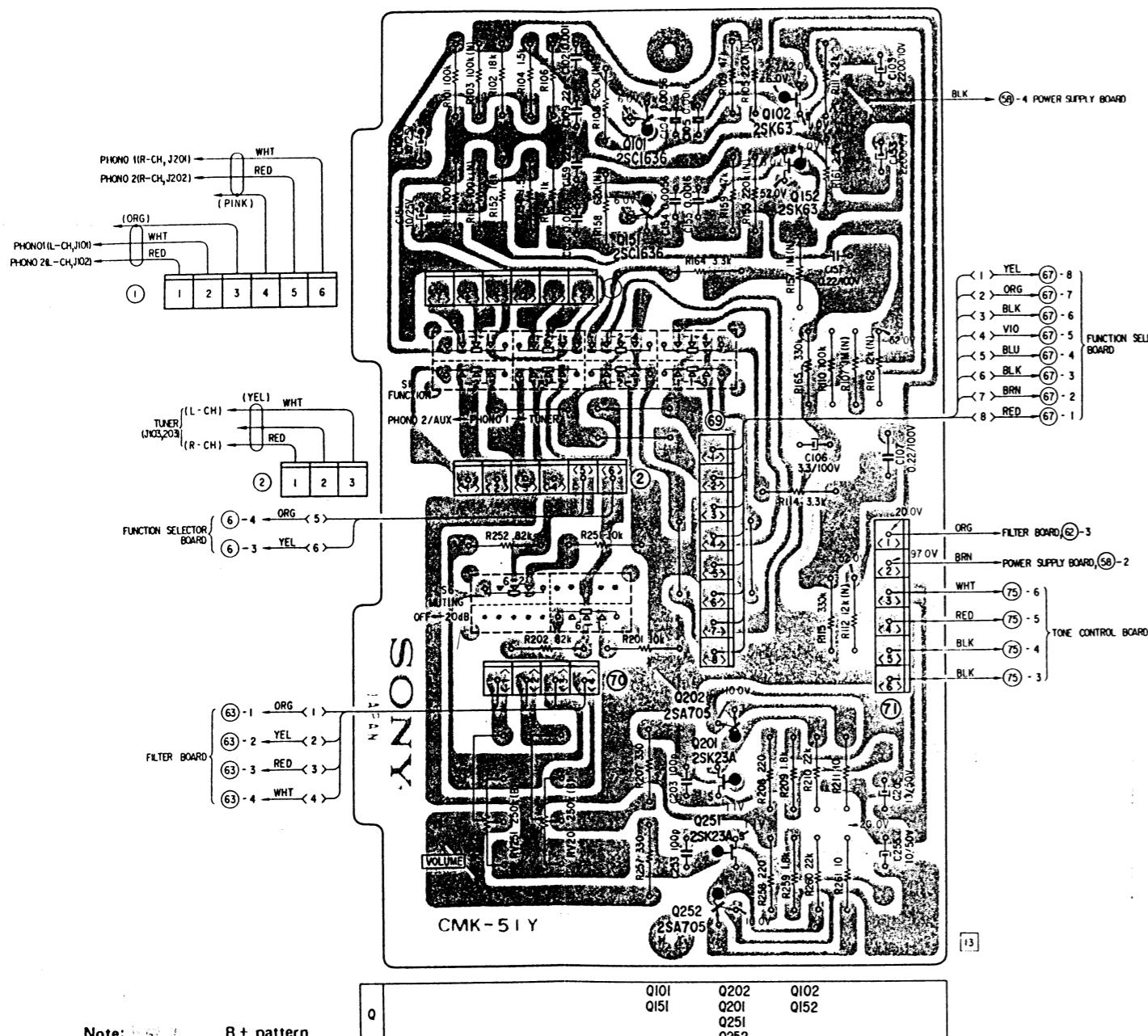


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## 3-4. MOUNTING DIAGRAM – EQUALIZER AMPLIFIER BOARD –

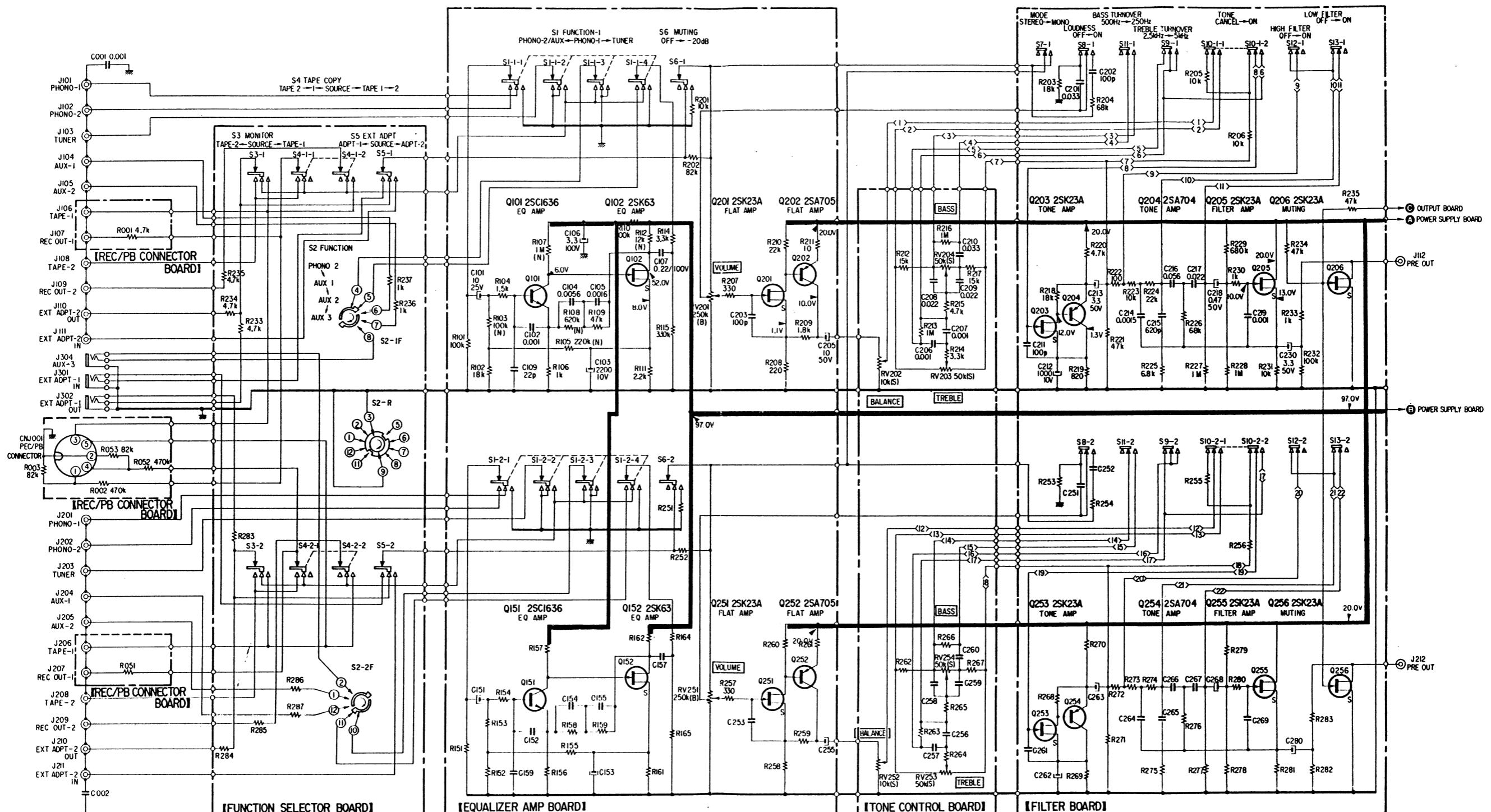
### – Conductor Side –

UK Model: Up to serial No. 600,350  
AEP Model: Up to serial No. 501,900



## 3-6. SCHEMATIC DIAGRAM — PREAMPLIFIER SECTION —

UK Model: Up to Serial No. 600,350  
 AEP Model: Up to Serial No. 501,900



- S1—FUNCTION (PHONO 1)
- S2—FUNCTION (PHONO 2)
- S3—MONITOR (SOURCE)
- S4—TAPE COPY (SOURCE)
- S5—EXT ADPT (SOURCE)
- S6—MUTING (OFF)
- S7—MODE (STEREO)

- S8—LOUDNESS (OFF)
- S9—TREBLE TURNOVER (2.5kHz)
- S10—TONE (CANCEL)
- S11—BASS TURNOVER (500Hz)
- S12—HIGH FILTER (OFF)
- S13—LOW FILTER (OFF)

— B+ LINE —

**Note:**

All resistance values are in ohms. k = 1,000, M = 1,000 k  
 All capacitance values are in  $\mu$ F except as indicated with p, which means  $\mu$ uF.

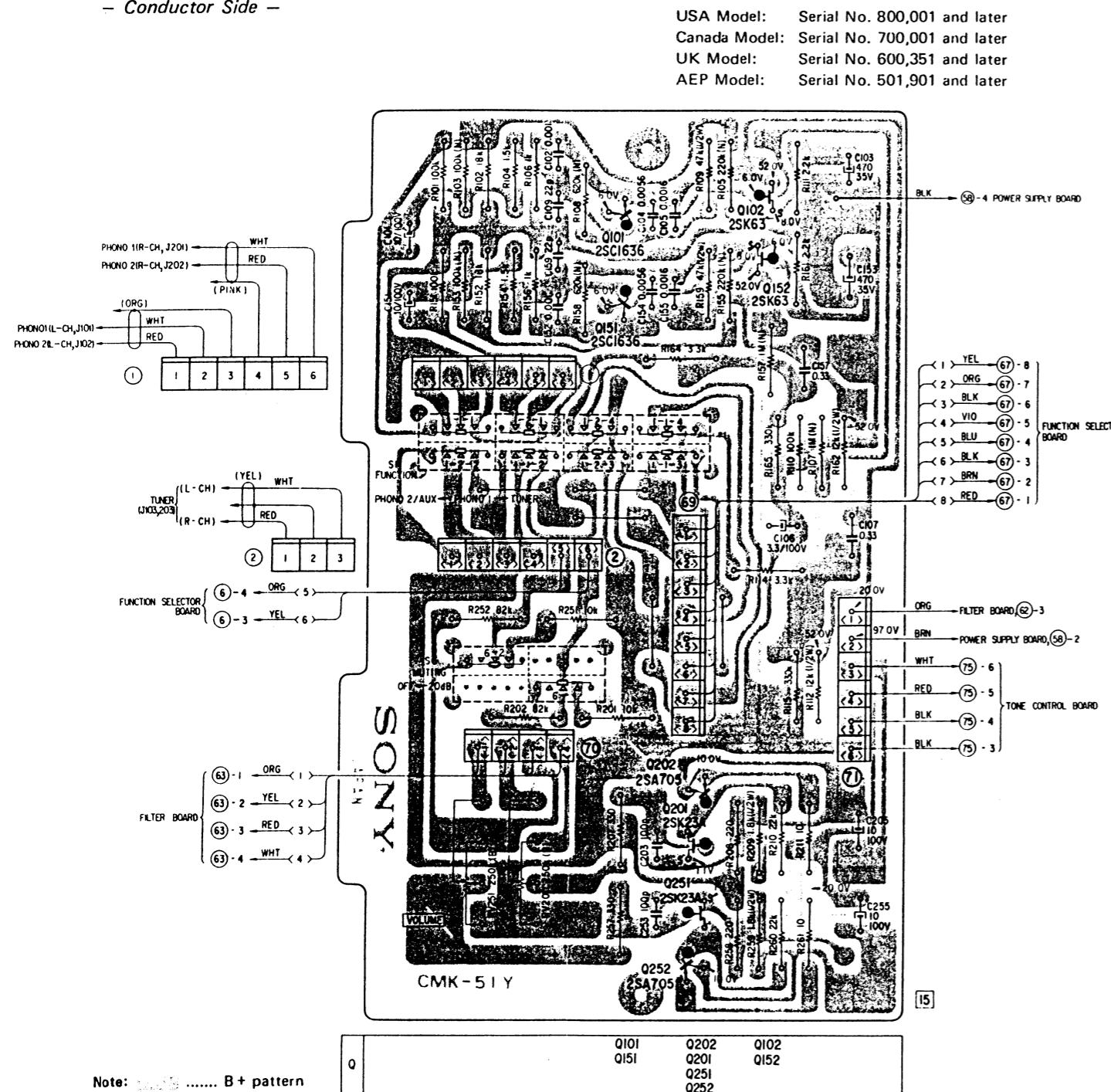
All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.

Voltage variations may be noted due to normal production tolerances.

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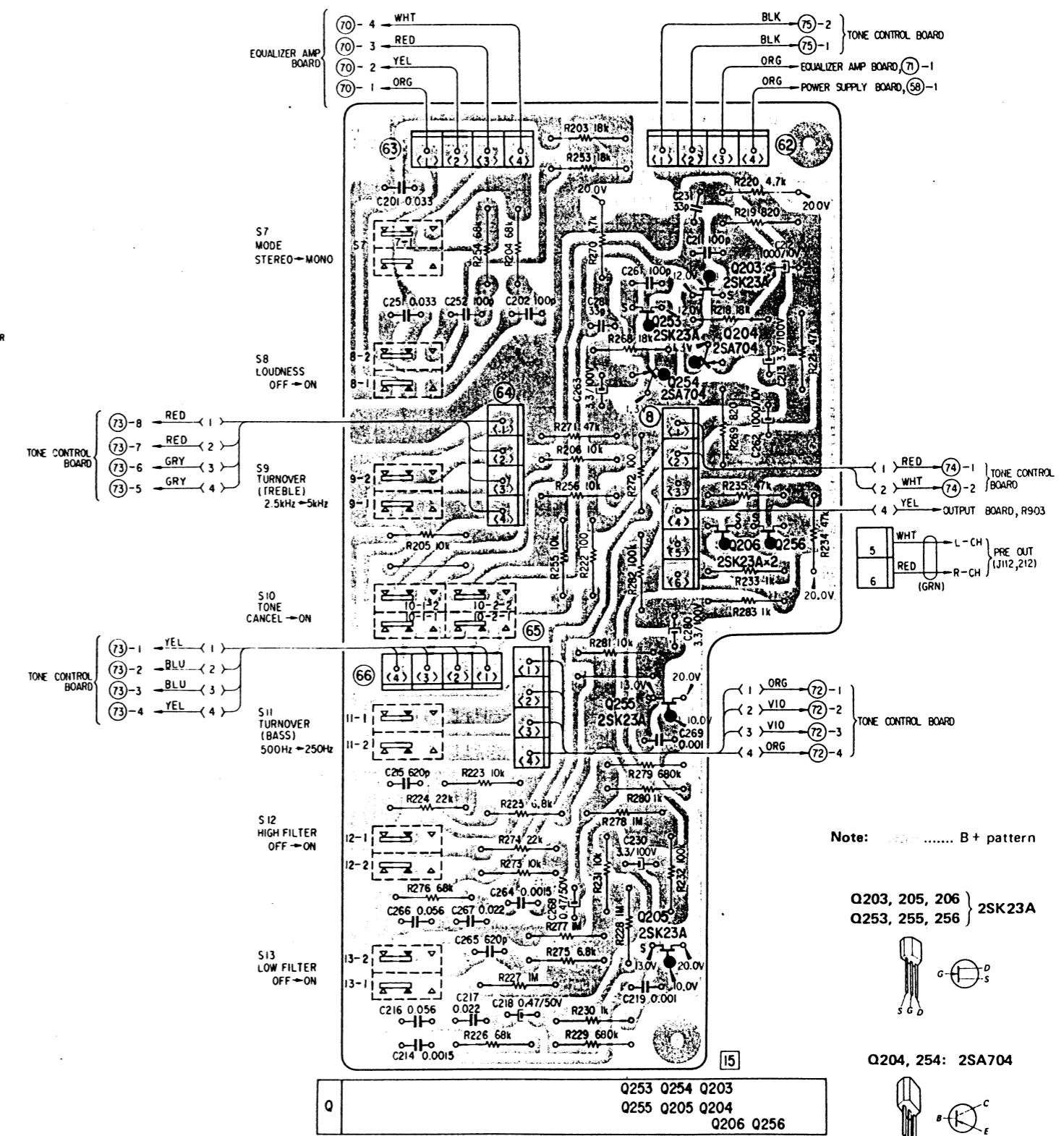
## 3-7. MOUNTING DIAGRAM - EQUALIZER AMPLIFIER BOARD -

### - Conductor Side -



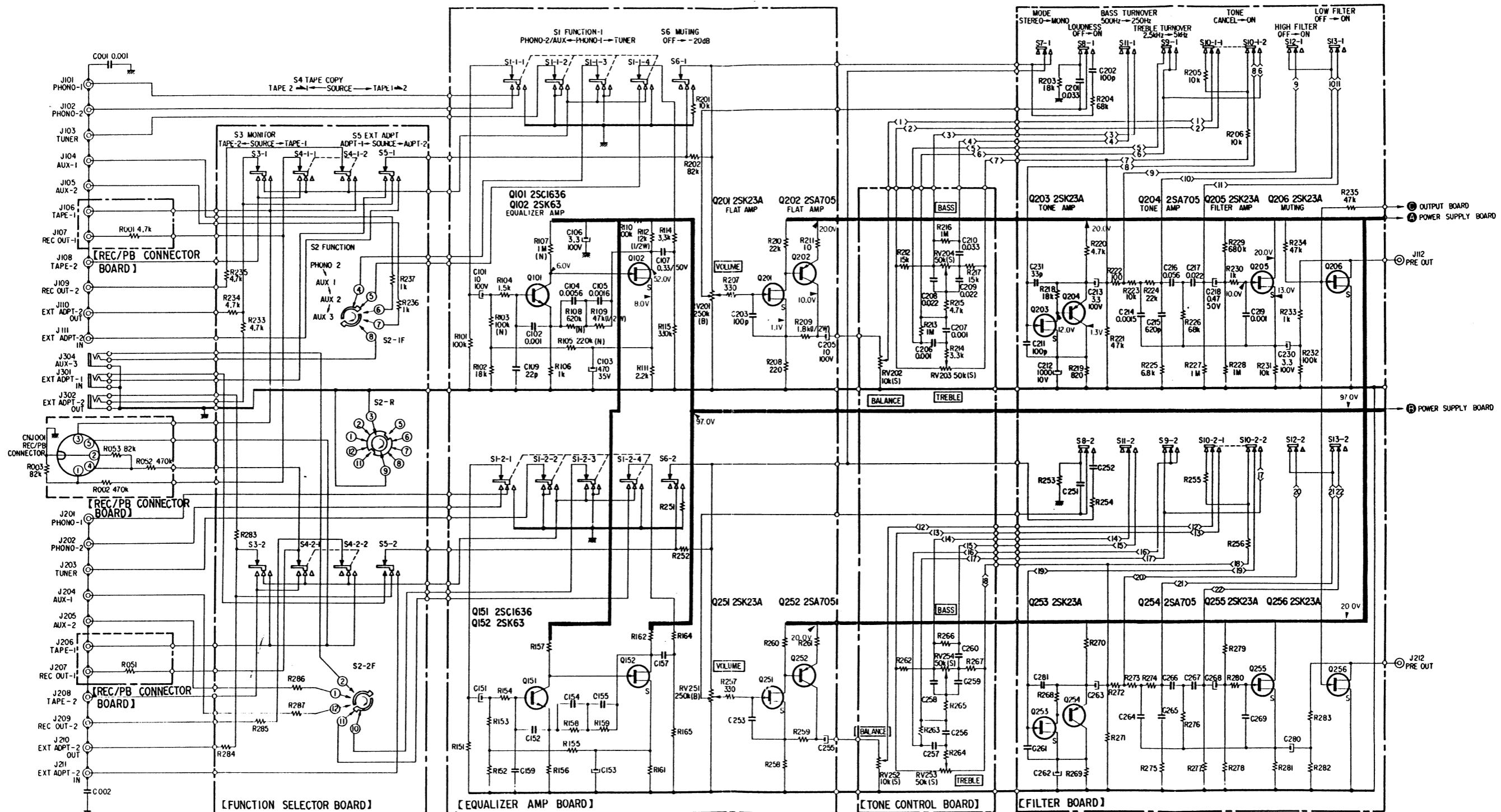
## 3-8. MOUNTING DIAGRAM - FILTER BOARD -

### - Conductor Side -



USA Model: Serial No. 800,001 and later  
Canada Model: Serial No. 700,001 and later  
UK Model: Serial No. 600,351 and later  
AEP Model: Serial No. 501,901 and later

### 3-9. SCHEMATIC DIAGRAM – PREAMPLIFIER SECTION –



- S1----FUNCTION (PHONE01)
- S2----FUNCTION (PHONE02)
- S3----MONITOR (SOURCE)
- S4----TAPE COPY (SOURCE)
- S5----EXT ADPT (SOURCE)
- S6----MUTING (OFF)
- S7----MODE (STEREO)
- S8----LOUDNESS (OFF)
- S9----TREBLE TURNOVER (2.5kHz)
- S10----TONE (CANCEL)
- S11----BASS TURNOVER (500Hz)
- S12----HIGH FILTER (OFF)
- S13----LOW FILTER (OFF)

B + LIP

**Note:**

All resistance values are in ohms.  $k = 1,000$ ,  $M = 1,000$  k  
All capacitance values are in  $\mu F$  except as indicated with p,  
which means  $\mu\mu F$ .

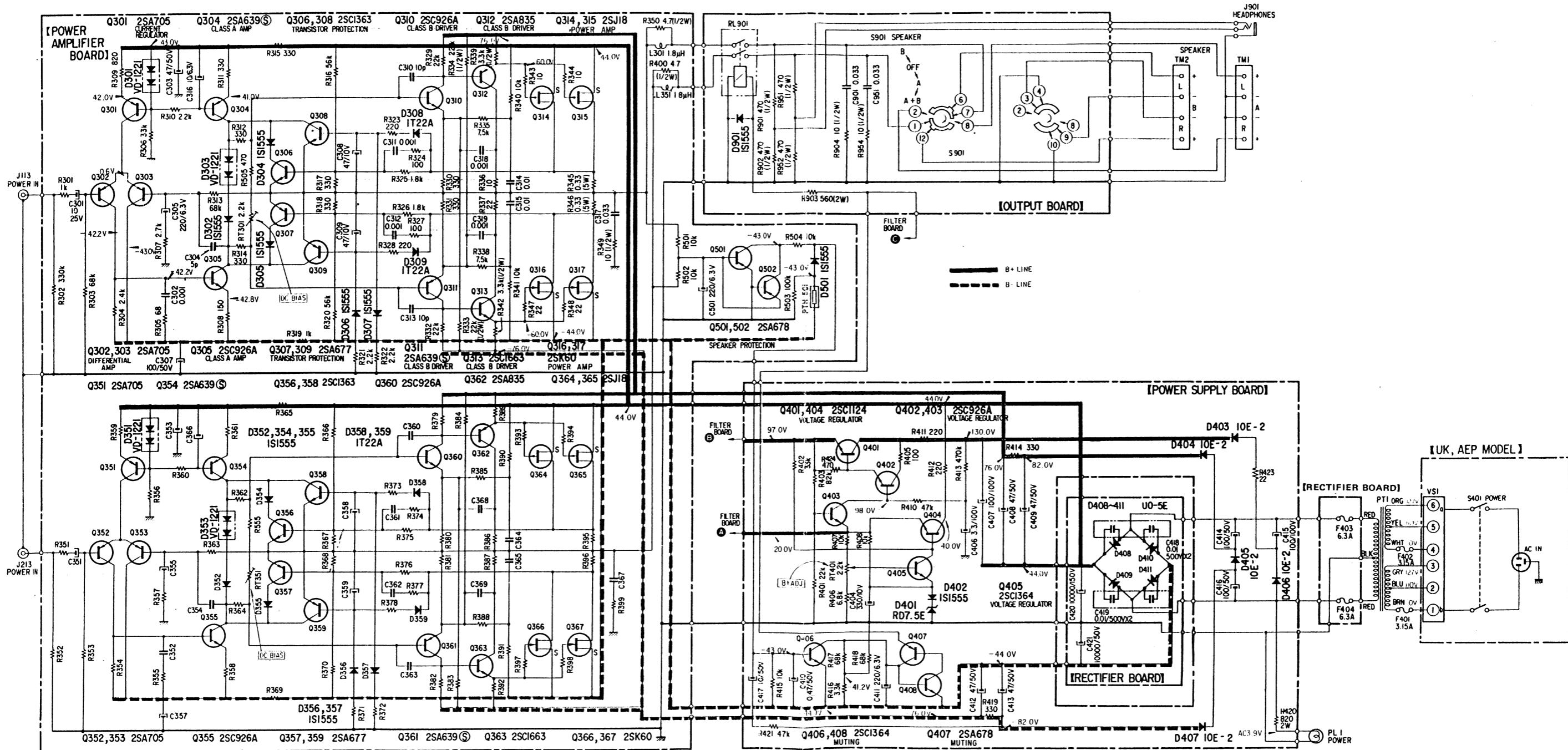
All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.

**Voltage variations may be noted due to normal production tolerances.**

**TA-5650** **TA-5650**

### 3-10. SCHEMATIC DIAGRAM – POWER AMPLIFIER SECTION –

UK Model: Up to Serial No. 600,350  
AEP Model: Up to Serial No. 501,900



**Note:**

All resistance values are in ohms.  $k = 1,000$ ,  $M = 1,000 k$

### All capacitance values

All capacitance values are in  $\mu\text{F}$ , except as indicated in Fig. 1, which means  $\mu\mu\text{F}$ .

All voltages are dc measured with a VOM which has an input

All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.

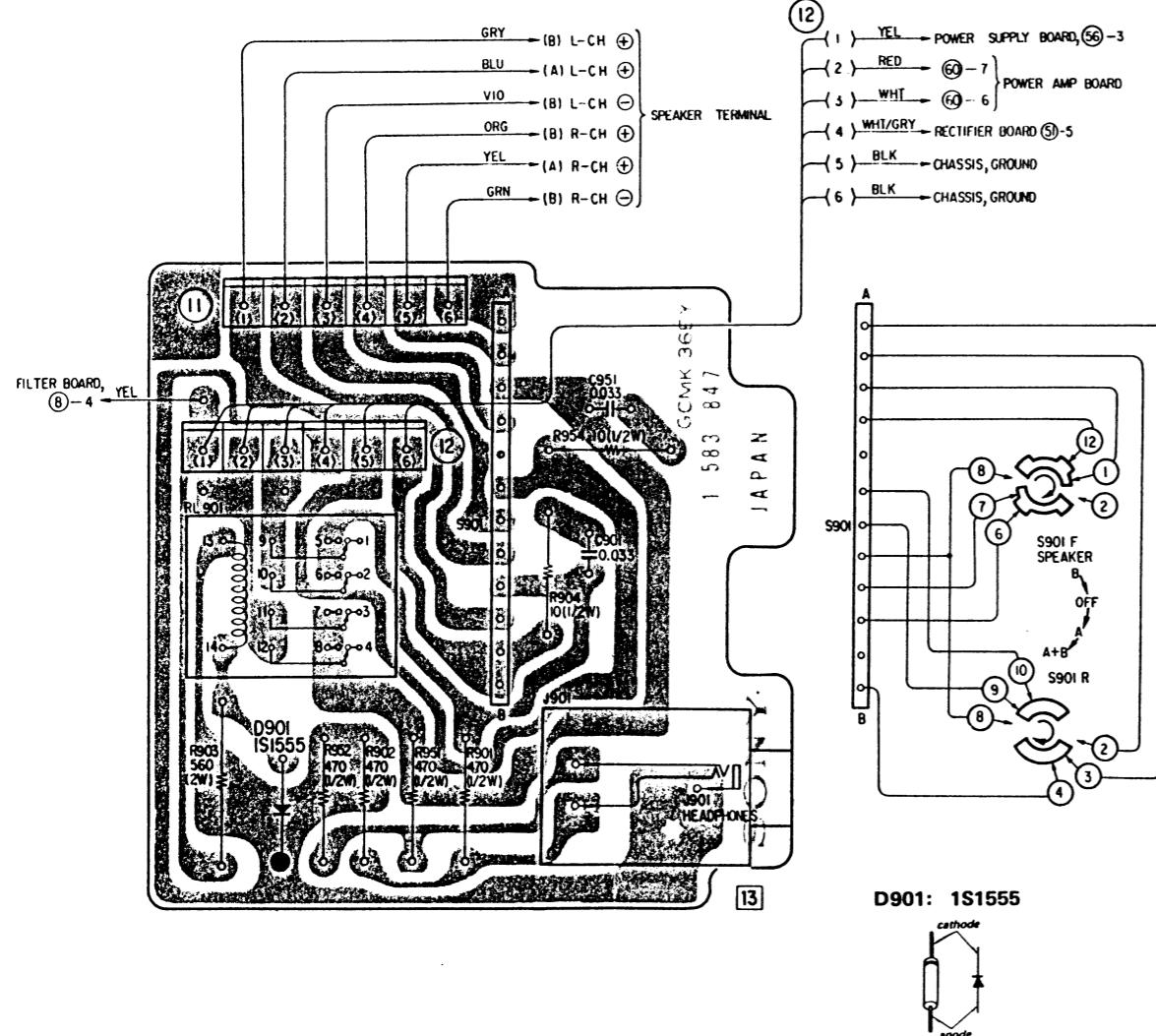
Voltage variations may be noted due to normal production



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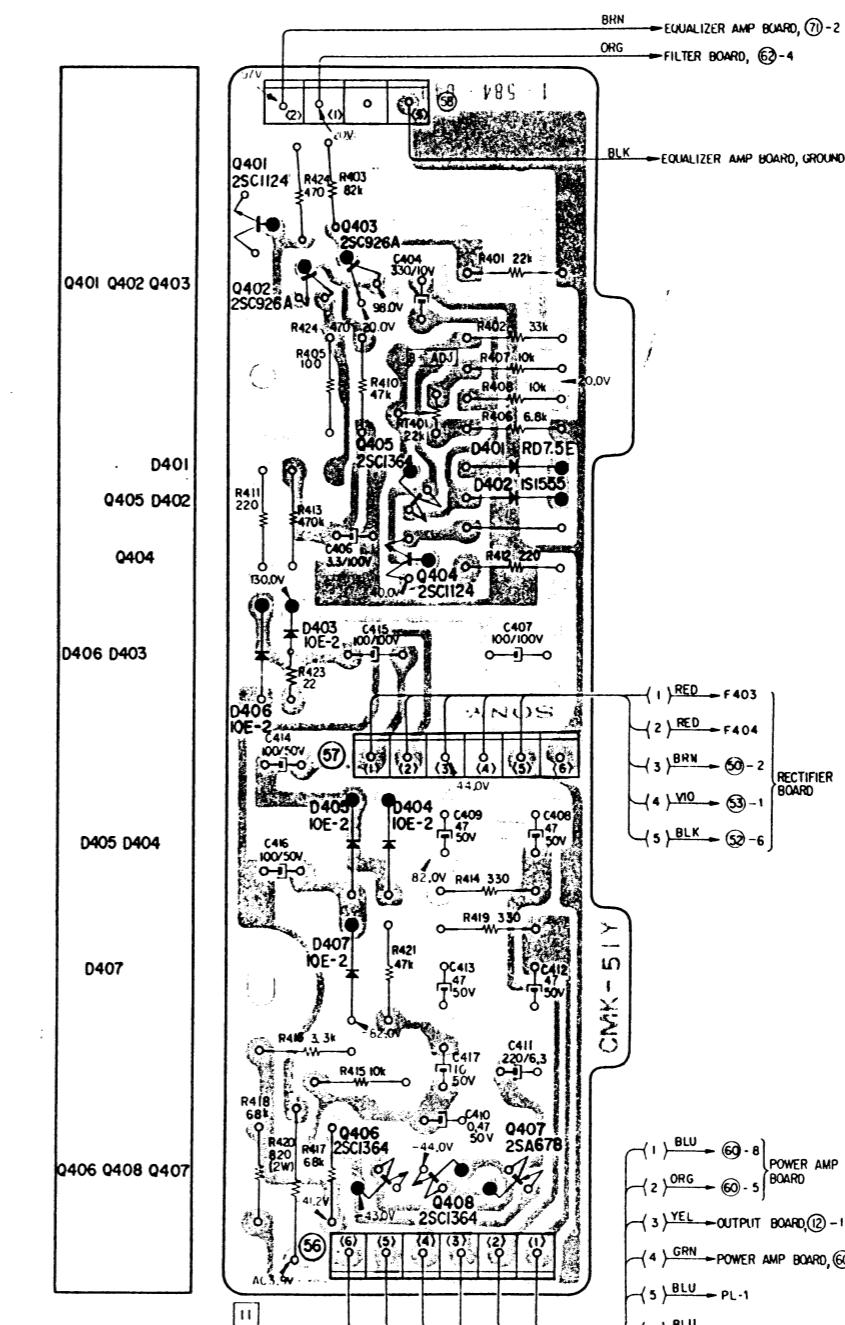
## 3-12. MOUNTING DIAGRAM – OUTPUT BOARD –

– Conductor Side –



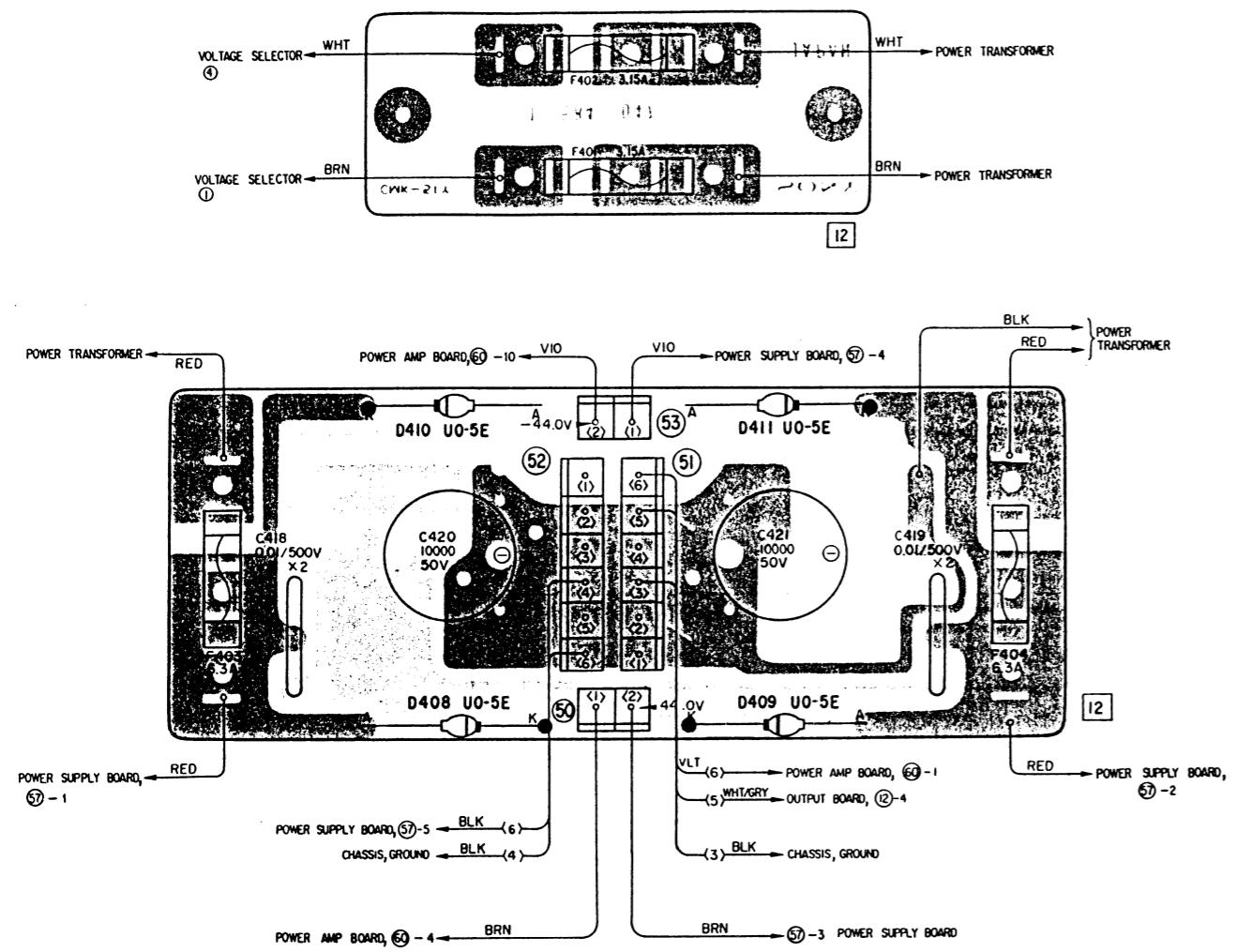
## 3-13. MOUNTING DIAGRAM – POWER SUPPLY BOARD –

– Conductor Side –



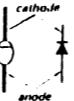
## 3-14. MOUNTING DIAGRAM - RECTIFIER/FUSE BOARDS -

- Component Side -



## Note:

- ..... B+ pattern
- ..... B- pattern

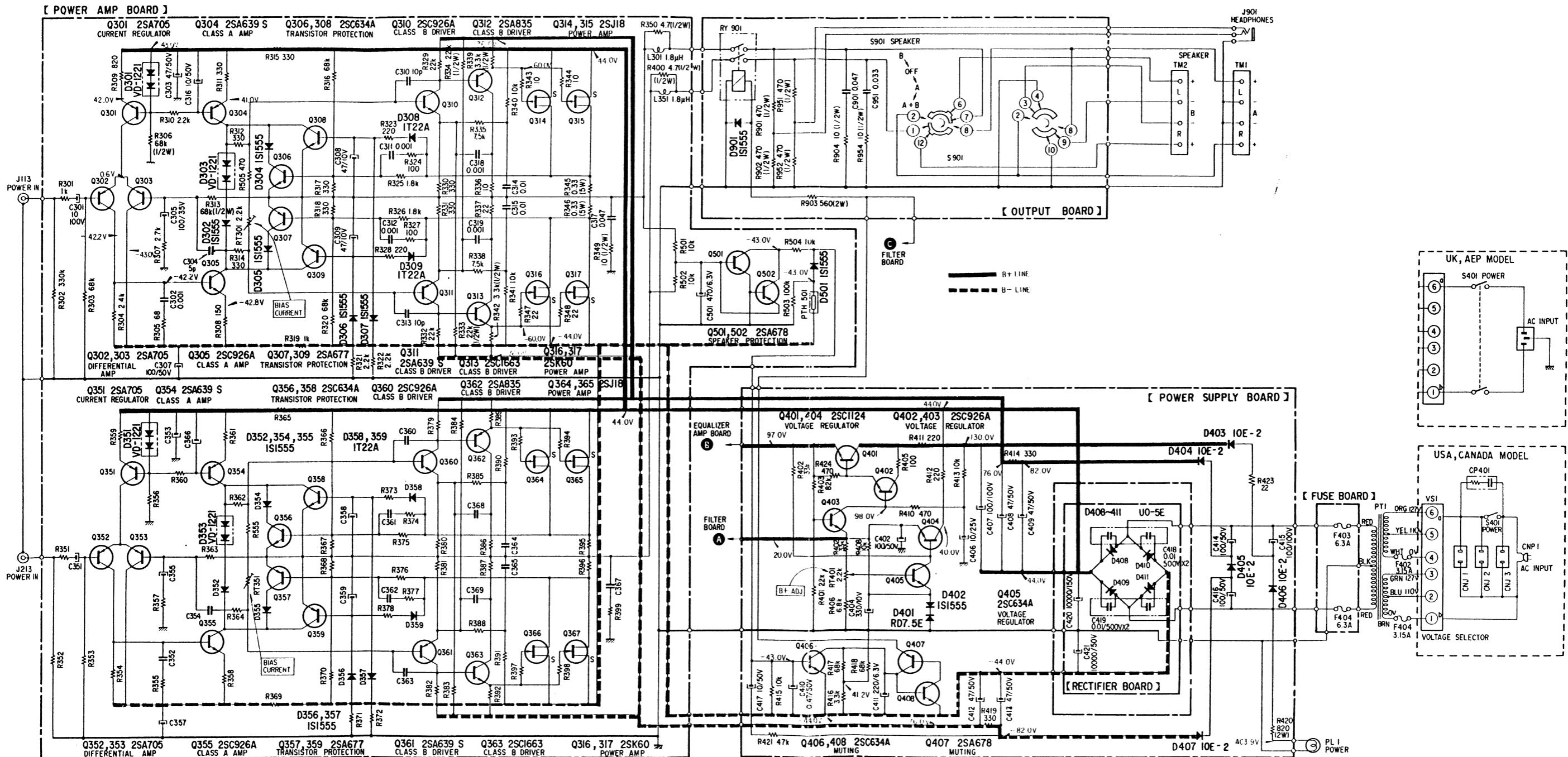
D408, 409 } UO-5E  
D410, 411 }

## MEMO

**TA-5650 TA-5650**

### 3-15. SCHEMATIC DIAGRAM – POWER AMPLIFIER SECTION –

USA Model: Serial No. 800,001 and later  
Canada Model: Serial No. 700,001 and later  
UK Model: Serial No. 600,351 and later  
AEP Model: Serial No. 501,901 and later



**Note:**

All resistance values are in ohms.  $k = 1,000$ ,  $M = 1,000 k$   
All capacitance values are in  $\mu F$  except as indicated with p.

which means  $\mu\text{F}$ .  
All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No circuit is

impedance of 20 k ohms/volt. No signal in. Voltage variations may be noted due to normal production tolerances.

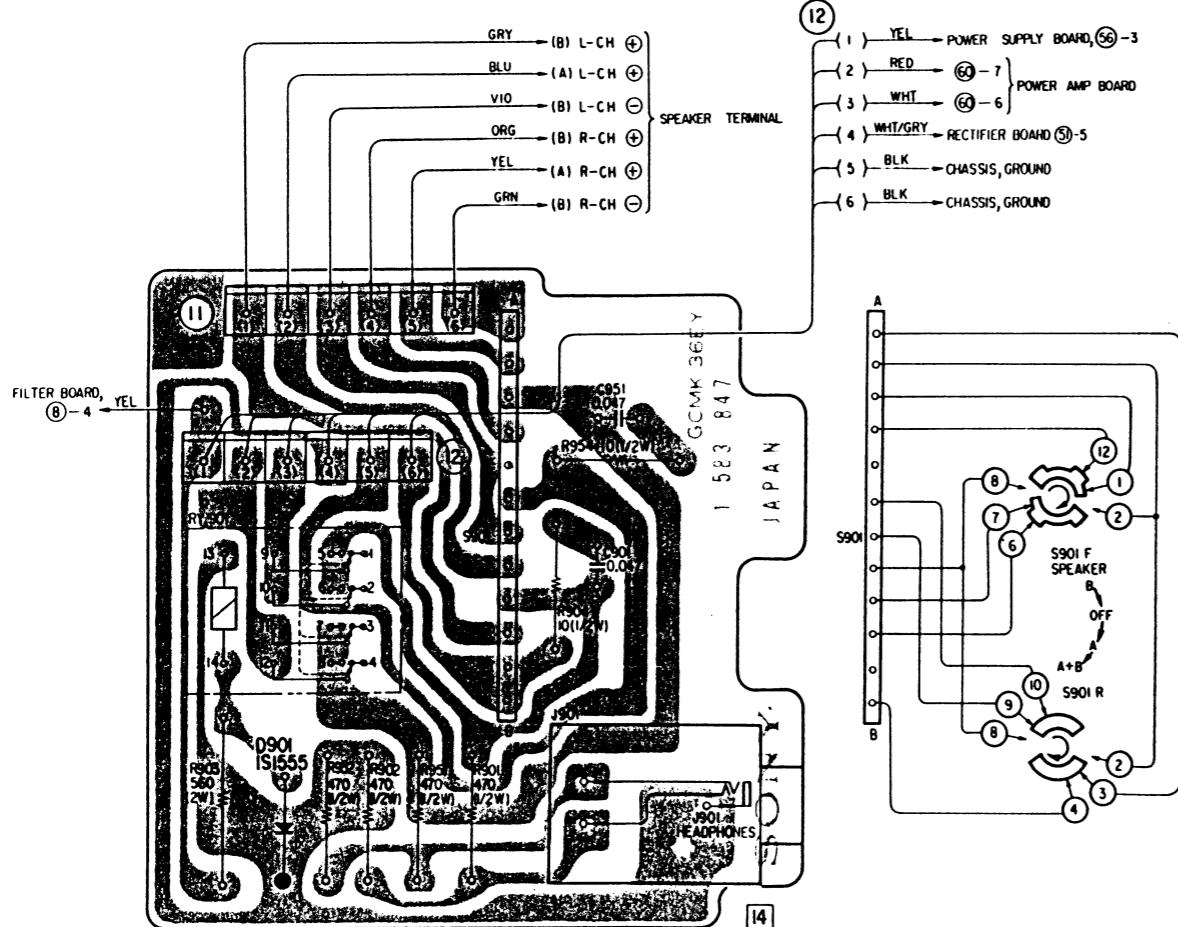


**TA-5650 TA-5650**

### 3-17. MOUNTING DIAGRAM – OUTPUT BOARD –

*— Conductor Side —*

**USA Model:** Serial No. 800,001 and later  
**Canada Model:** Serial No. 700,001 and later  
**UK Model:** Serial No. 600,351 and later  
**AEP Model:** Serial No. 501,901 and later



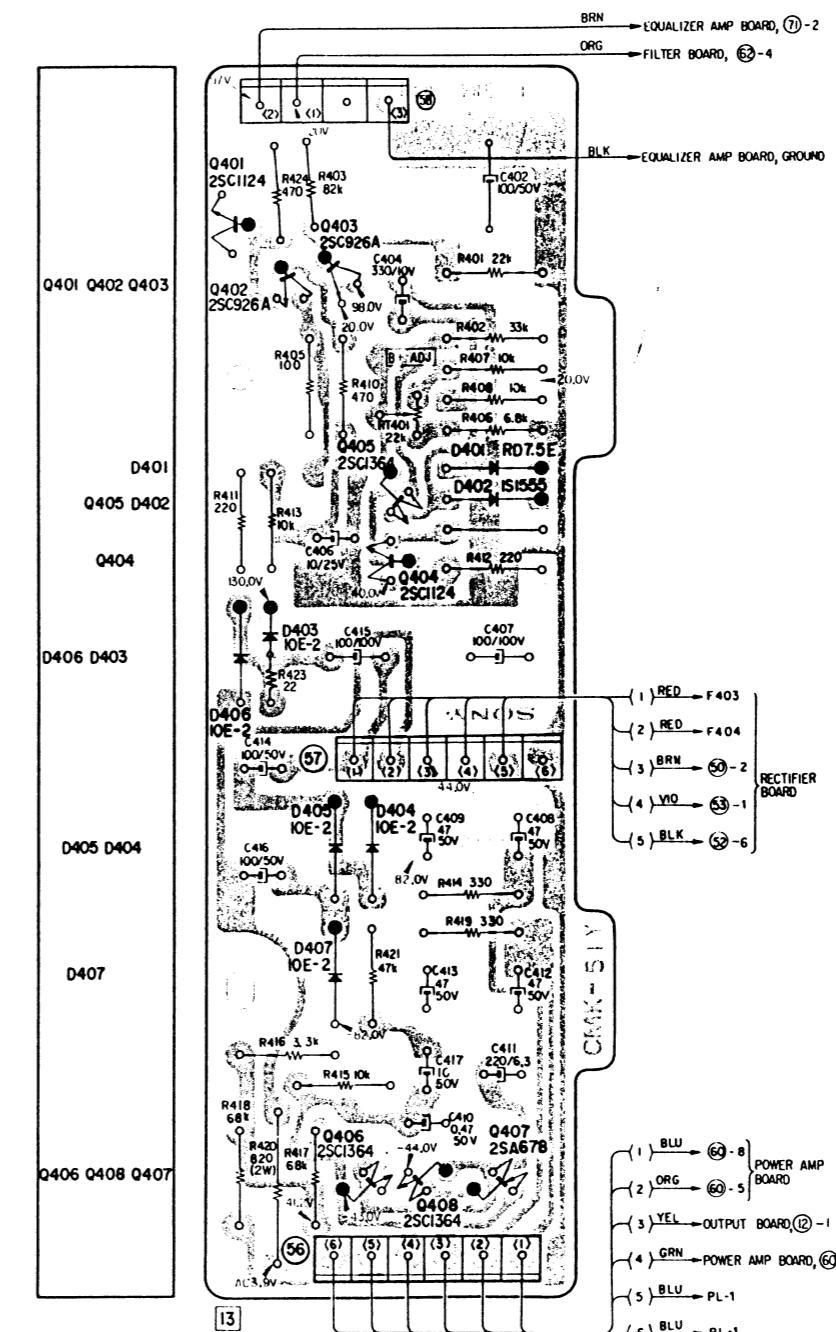
**D901: 1S1555**



### 3-18. MOUNTING DIAGRAM – POWER SUPPLY BOARD –

– *Conductor Side*

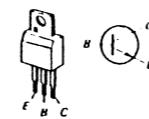
USA Model: Serial No. 800,001 and later  
Canada Model: Serial No. 700,001 and later  
UK Model: Serial No. 600,351 and later  
AEP Model: Serial No. 501,901 and later



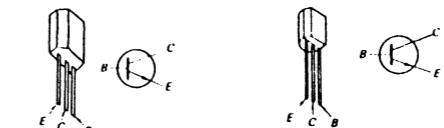
**Note:**

..... B + pattern  
..... B - pattern

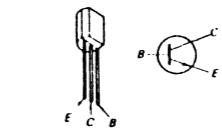
Q401 404: 2SC1124



Q402 403: 2SC926



Q405, 406 }  
Q408 } 2SC1364

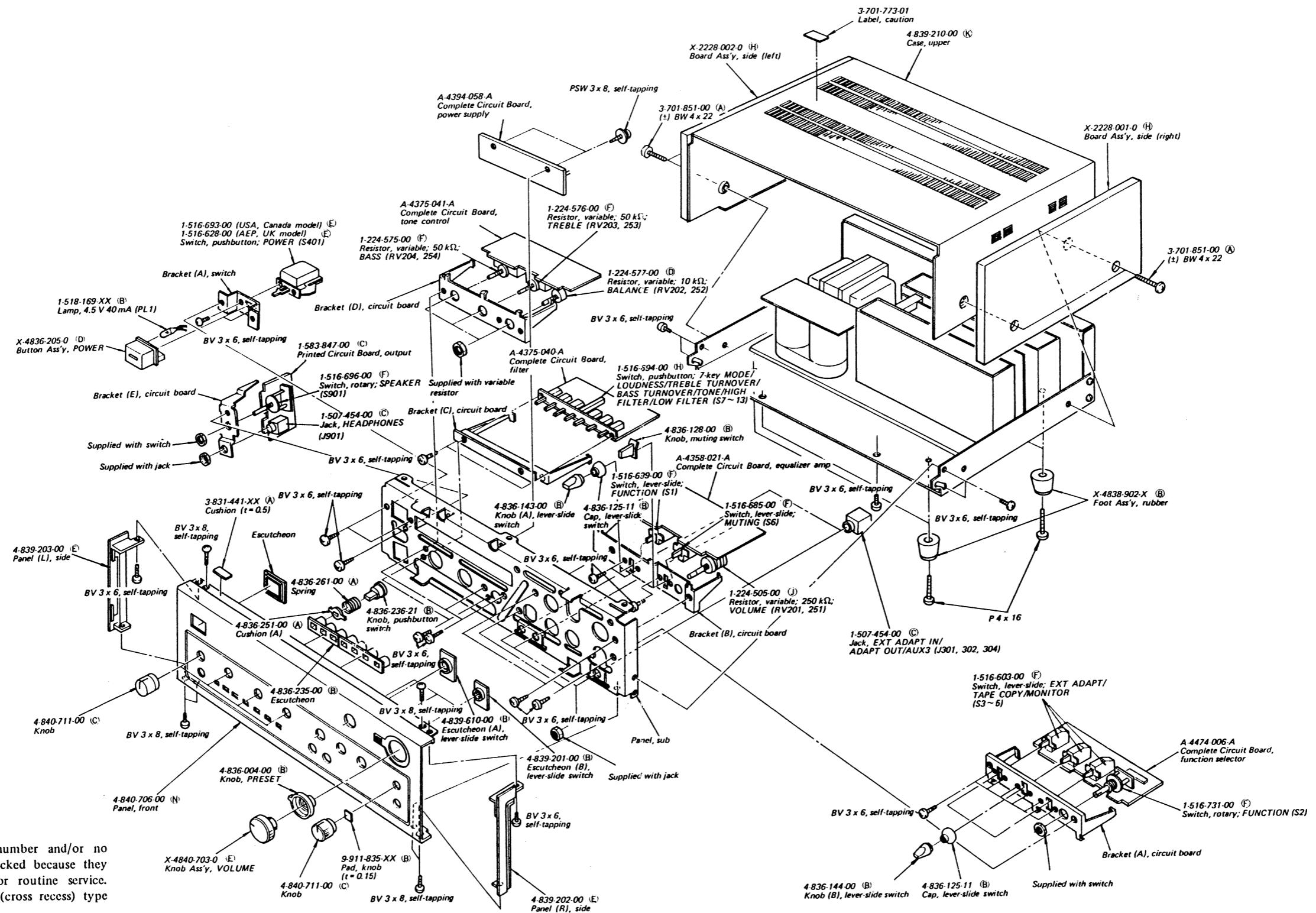


D401: RD-7.5E  
D402: 1S1555  
D403 ~ 407: 10E-2



SECTION 4  
EXPLODED VIEWS

(1)

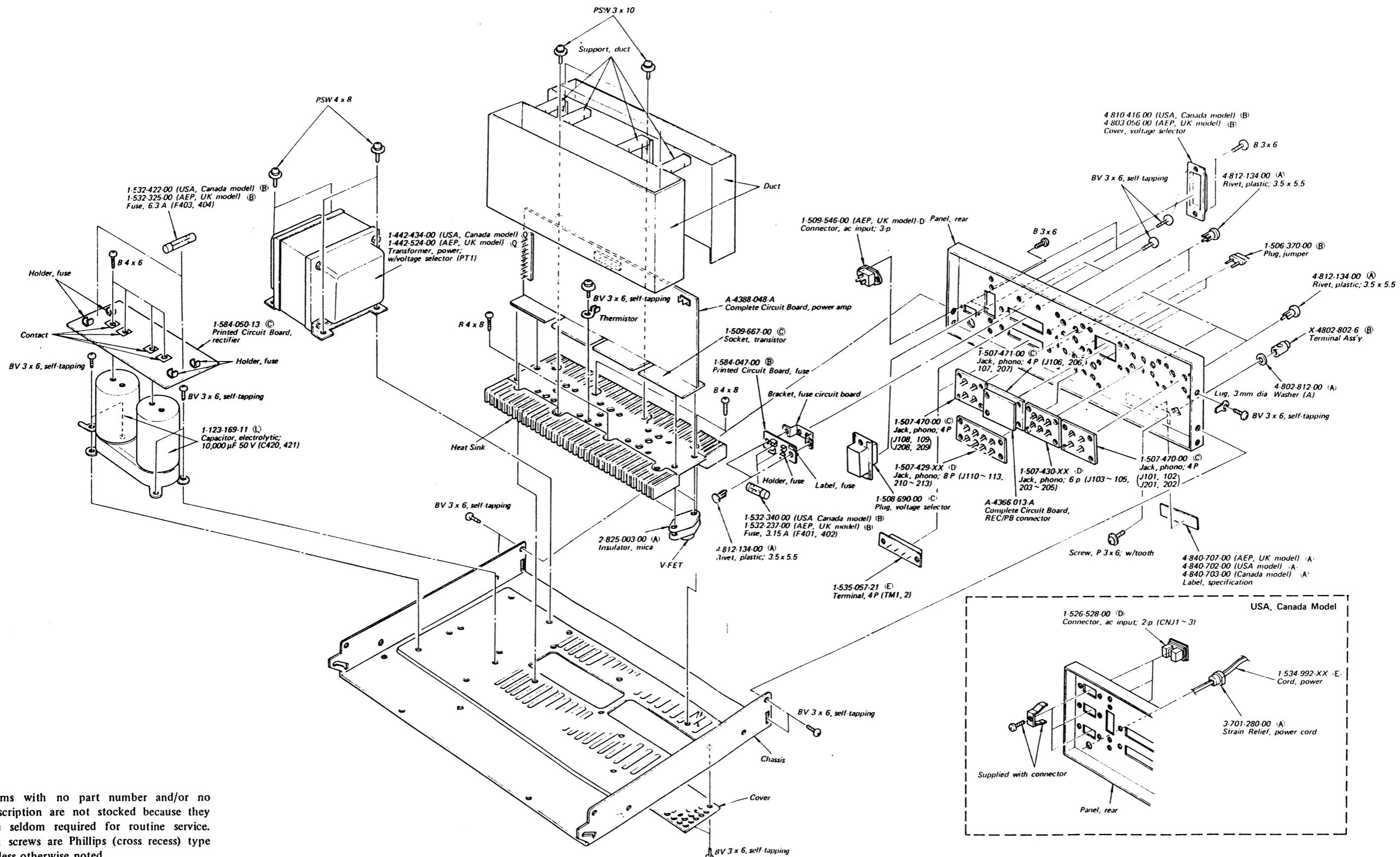


## Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
- (-) = slotted head
- The circled letters (Ⓐ to Ⓛ) are applicable for European model only.

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(2)



**Note:**

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.  
(-) = slotted head
- The circled letters (Ⓐ to Ⓛ) are applicable for European model only.

## SECTION 5

### ELECTRICAL PARTS LIST

Note: The circled letters (Ⓐ to Ⓛ) are applicable for European model only.

Mark	Applicable Serial No.	
<input type="checkbox"/>	UK model:	Up to Serial No. 600,350
<input type="checkbox"/>	AEP model:	Up to Serial No. 501,900
<input checked="" type="checkbox"/>	USA model:	Serial No. 800,001 and later
<input checked="" type="checkbox"/>	Canada model:	Serial No. 700,001 and later
<input checked="" type="checkbox"/>	UK model:	Serial No. 600,351 and later
<input checked="" type="checkbox"/>	AEP model:	Serial No. 501,901 and later

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			
<b>COMPLETE CIRCUIT BOARDS</b>								
A-4358-021-A	Equalizer Amp		Q314,364					
A-4366-013-A	REC/PB Connector		Q315,365		Ⓐ 2SJ18			
A-4375-040-A	Filter		Q316,366					
A-4375-041A	TONE Control		Q317,367		Ⓑ 2SK60			
A-4388-048-A	Power Amp		Q401		Ⓒ 2SC1124			
A-4394-058-A	Power Supply		Q402,403		Ⓓ 2SC926A			
A-4474-006-A	Function Selector		Q404		Ⓒ 2SC1124			
			Q405,406		Ⓑ 2SC1364			
			Q407		Ⓒ 2SA678			
			Q408		Ⓑ 2SC1364			
<b>PRINTED CIRCUIT BOARDS</b>								
1-583-847-00	Ⓒ Output		Q501,502		Ⓒ 2SA678			
1-584-047-00	Ⓑ Fuse			<b>Diodes</b>				
1-584-050-13	Ⓒ Rectifier		D301,351		Ⓑ VD1221			
<b>SEMICONDUCTORS</b>			D302,352		Ⓑ 1S1555			
<b>Transistors</b>			D303,353		Ⓑ VD1221			
Q101,151	Ⓑ 2SC1636		D304~307		Ⓒ 1S1555			
Q102,152	Ⓔ 2SK63		D354~357					
Q201,251	Ⓒ 2SK23A		D308,358		Ⓑ 1T22A			
Q202,252	Ⓒ 2SA705		D309,359					
Q203,253	Ⓒ 2SK23A		D401		Ⓑ RD7.5E			
Q204,254	Ⓒ 2SA705		D402		Ⓑ 1S1555			
Q205,255	Ⓒ 2SK23A		D403~407		Ⓑ 10E-2			
Q206,256			D408~411		Ⓒ U05E			
Q301~303	Ⓒ 2SA705		D501,901		Ⓑ 1S1555			
Q351~353			PTH501	1-800-340-21	Ⓑ Thermistor (positive)			
Q304,354	Ⓒ 2SA639S		<b>COIL</b>					
Q305,355	Ⓓ 2SC926A		L301,351	1-407-592-00	Ⓐ Microinductor 1.8 $\mu$ H			
Q306,356	Ⓑ 2SC1364		<b>TRANSFORMER</b>					
Q307,357	Ⓒ 2SA677		PT1	1-442-434-00	Ⓒ Power (USA, Canada model)			
Q308,358	Ⓑ 2SC1364		PT1	1-442-524-00	Ⓒ Power (AEP, UK model)			
Q309,359	Ⓒ 2SA677							
Q310,360	Ⓓ 2SC926A							
Q311,361	Ⓒ 2SA639S							
Q312,362	Ⓔ 2SA835							
Q313,363	Ⓓ 2SC1663							

**Note:** The circled letters (Ⓐ to Ⓛ) are applicable for European model only.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
-----------------	-----------------	--------------------

### CAPACITORS

All capacitors are in  $\mu\text{F}$  and electrolytic type unless otherwise indicated.  
50 or less working volts are omitted except for electrolytic type. (p =  $\mu\mu\text{F}$ )

C001,002	1-102-074-11	Ⓐ 0.001	ceramic
C101,151	□ 1-121-748-11 ■ 1-121-126-11	Ⓐ 10 Ⓐ 10	25V 100V
C102,152	1-108-227-12	Ⓐ 0.001	mylar
C103,153	□ 1-121-659-11 ■ 1-121-361-11	Ⓑ 2200 Ⓑ 470	10V 35V
C104,154	1-103-743-11	Ⓑ 0.0056	polystyrol
C105,155	1-103-730-11	Ⓐ 0.0016	polystyrol
C106	1-121-995-11	Ⓑ 3.3	100V
C107,157	□ 1-105-729-12 ■ 1-108-822-12	Ⓐ 0.22 Ⓐ 0.33	100V 50V
C109,159	1-102-967-11	Ⓐ 22p	ceramic
C201,251	1-108-591-12	Ⓐ 0.033	mylar
C202,252	1-102-973-11	Ⓐ 100p	ceramic
C203,253	□ 1-123-051-11 ■ 1-121-126-11	Ⓐ 10 Ⓐ 10	50V 100V
C206,256	1-108-555-12	Ⓐ 0.001	mylar
C207,257	1-108-587-12	Ⓐ 0.022	mylar
C208,258	1-108-591-12	Ⓐ 0.033	mylar
C209,259	1-102-973-11	Ⓐ 100p	ceramic
C210,260	1-121-736-11	Ⓑ 1000	10V
C211,261	1-121-914-11	Ⓑ 3.3	50V
C212,262	1-121-995-11	Ⓑ 3.3	100V
C213,263	1-108-559-12	Ⓐ 0.0015	mylar
C214,264	1-103-720-11	Ⓐ 620p	polystyrol
C215,265	1-108-597-12	Ⓐ 0.056	mylar
C216,266	1-108-587-12	Ⓐ 0.022	mylar
C217,267	1-121-911-11	Ⓐ 0.47	50V
C218,268	1-108-227-12	Ⓐ 0.001	mylar
C219,269	1-121-914-11 ■ 1-121-995-11	Ⓑ 3.3 Ⓑ 3.3	50V 100V
C220,280	■ 1-102-963-11	Ⓐ 33p	ceramic

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
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C301,351	□ 1-121-748-11 ■ 1-121-126-11	Ⓐ 10 Ⓐ 10	25V 100V
C302,352	1-108-227-12	Ⓐ 0.001	mylar
C303,353	1-123-058-11	Ⓐ 47	50V
C304,354	1-102-807-11	Ⓐ 5p	ceramic
C305,355	□ 1-121-419-11 ■ 1-121-357-11	Ⓑ 220 Ⓑ 100	6.3V 35V
C307,357	1-123-059-11	Ⓑ 100	50V
C308,358	1-121-927-11	Ⓑ 47	10V
C309,359	1-102-947-11	Ⓐ 10p	ceramic
C311,361	1-108-227-12	Ⓐ 0.001	mylar
C312,362	1-102-947-11	Ⓐ 10p	ceramic
C313,363	1-108-239-12	Ⓐ 0.01	mylar
C314,364	1-108-239-12	Ⓐ 0.01	mylar
C315,365	1-121-469-11 ■ 1-121-738-11	Ⓐ 10 Ⓐ 10	6.3V 50V
C316,366	□ 1-108-244-12 ■ 1-108-868-12	Ⓐ 0.033 Ⓐ 0.047	mylar mylar
C317,367	1-108-227-12	Ⓐ 0.001	mylar
C318,368	1-123-058-11	Ⓑ 47	50V
C319,369	1-121-726-11	Ⓐ 220	6.3V
C402	■ 1-121-417-11	Ⓑ 100	50V
C404	1-121-805-11	Ⓑ 330	10V
C406	□ 1-121-995-11 ■ 1-121-398-11	Ⓐ 3.3 Ⓐ 10	100V 25V
C407	1-123-084-11	Ⓒ 100	100V
C408,409	1-123-058-11	Ⓑ 47	50V
C410	1-121-726-11	Ⓐ 0.47	50V
C411	1-121-419-11	Ⓐ 220	6.3V
C412,413	1-123-058-11	Ⓑ 47	50V
C414	1-123-059-11	Ⓑ 100	50V
C415	1-123-084-11	Ⓒ 100	100V
C416	1-123-059-11	Ⓑ 100	50V
C417	1-121-738-11	Ⓐ 10	50V
C418,419	1-102-355-11	Ⓐ 0.01	500V
C420,421	1-123-169-11	Ⓛ 10000	ceramic
C501	□ 1-121-419-11 ■ 1-123-077-11	Ⓑ 220 Ⓑ 470	6.3V 6.3V
C901,951	□ 1-108-244-12 ■ 1-108-868-12	Ⓐ 0.033 Ⓐ 0.047	mylar mylar

Note: The circled letters (Ⓐ to Ⓛ) are applicable for European model only.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description					
<b>RESISTORS</b>										
<p>All resistors are in ohms. Regular type <math>\pm 5\%</math>, <math>\frac{1}{4}W</math> carbon and composition resistors are omitted.</p> <p>Check the schematic diagram for the resistance values. (<math>k = 1000</math>, <math>M = 1000 k</math>)</p>										
R109,159	■ 1-244-913-11	Ⓐ 47 k	$\frac{1}{2}W$	carbon	S7~13	1-516-694-00	Ⓑ Push, 7-key; MODE, LOUDNESS, TREBLE TURNOVER, BASS TURNOVER, TONE, HIGH FILTER, LOW FILTER			
R112,162	■ 1-244-899-11	Ⓐ 12 k	$\frac{1}{2}W$	carbon	S401	1-516-628-00	Ⓔ Pushbutton, POWER (AEP, UK model)			
R209,259	■ 1-244-879-11	Ⓐ 1.8 k	$\frac{1}{2}W$	carbon	S401	1-516-693-00	Ⓔ Pushbutton, POWER (USA, Canada model)			
R306,356	■ 1-244-917-11	Ⓐ 68 k	$\frac{1}{2}W$	carbon	S901	1-516-696-00	Ⓕ Rotary, SPEAKER			
R313,363	■ 1-244-917-11	Ⓐ 68 k	$\frac{1}{2}W$	carbon	<b>JACKS</b>					
R333,383	1-244-905-11	Ⓐ 22 k	$\frac{1}{2}W$	carbon	CNJ001	1-509-549-00	Ⓑ Connector, REC/PB			
R334,384					CNJ1~3	1-526-528-00	Ⓓ Connector, ac; 2-p (USA, Canada model)			
R339,389	1-211-650-11	Ⓐ 3.3 k	$\frac{1}{2}W$	carbon		1-509-546-00	Ⓓ Connector, ac; 3-p (AEP, UK model)			
R342,392					J101,201	1-507-470-00	Ⓒ Phono, 4-p; PHONO 1, 2			
R345,395	1-217-157-11	Ⓐ 0.33	5W	wire-wound	J102,202	1-507-470-00	Ⓒ Phono, 4-p; PHONO 1, 2			
R346,396					J103~105	1-507-430-XX	Ⓓ Phono, 6-p; TUNER, AUX 1, 2			
R349,399	1-211-590-11	Ⓐ 10	$\frac{1}{2}W$	carbon	J203~205	1-507-471-00	Ⓒ Phono, 4-p; TAPE 1, REC OUT 1			
R350,450	1-244-817-11	Ⓐ 4.7	$\frac{1}{2}W$	carbon	J106,206	1-507-470-00	Ⓒ Phono, 4-p; TAPE 2, REC OUT 2			
R420	1-206-662-11	Ⓐ 820	2W	metal oxide	J107,207	1-507-429-XX	Ⓓ Phono, 8-p; EXT ADPT 2, PRE OUT, POWER IN			
R901,951	1-244-865-11	Ⓐ 470	$\frac{1}{2}W$	carbon	J301,302	1-507-454-00	Ⓒ EXT ADAPT IN, ADAPT OUT, AUX 3			
R902,952					J304					
R903	1-206-658-11	Ⓐ 560	2W	metal oxide	J901	1-507-454-00	Ⓒ HEADPHONES			
R904,905	1-211-590-11	Ⓐ 10	$\frac{1}{2}W$	carbon	<b>MISCELLANEOUS</b>					
RT301,351	1-224-489-00	Ⓑ 2.2 k		adjustable	CP401	1-231-057-31	Ⓑ Encapsulated Component (USA, Canada model)			
RT401	1-224-250-XX	Ⓒ 2.2 k		adjustable	F401,402	1-532-340-00	Ⓑ Fuse, 3.15A (USA, Canada model)			
RV201,251	1-224-505-00	Ⓓ 250 k		variable; VOLUME		1-532-237-00	Ⓑ Fuse, 3.15A (AEP, UK model)			
RV202,252	1-224-577-00	Ⓓ 10 k		variable; BALANCE	F403,404	1-532-325-00	Ⓑ Fuse, 6.3A (AEP, UK model)			
RV203,253	1-224-576-00	Ⓔ 50 k		variable; TREBLE		1-532-422-00	Ⓑ Fuse, 6.3A (USA, Canada model)			
RV204,254	1-224-575-00	Ⓔ 50 k		variable; BASS	PL1	1-518-169-XX	Ⓑ Lamp, 4.5V 40 mA			
<b>SWITCHES</b>						RY901	1-515-257-00	Ⓗ Relay		
S1	1-516-699-00	Ⓔ Lever-slide, FUNCTION								
S2	1-516-731-00	Ⓔ Rotary, FUNCTION								
S3~5	1-516-603-00	Ⓔ Lever-slide, EXT ADAPT, TAPE COPY, MONITOR								
S6	1-516-685-00	Ⓔ Lever-slide, MUTING								

**Note:** The circled letters (Ⓐ to Ⓛ) are applicable for European model only.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
TM1,2	1-535-057-21	Ⓐ Terminal, 4-p			
	1-506-370-00	Ⓑ Plug, jumper			
	1-508-690-00	Ⓒ Plug, voltage selector			
	1-509-667-00	Ⓒ Socket, transistor			
	1-534-992-XX	Ⓔ Cord, power (USA, Canada model)			
					<b>ACCESSORIES</b>
			1-506-113-00	Ⓐ Plug, short	
			1-534-819-11	Ⓔ Cord, power (UK model)	
			1-534-754-12	Ⓔ Cord, power (E model)	
			3-780-566-11	Ⓕ Manual, instruction (Canada, UK and AEP model)	
			3-780-566-21	Ⓔ Manual, instruction (USA model)	
			3-793-520-82	Ⓐ Card, guaranty (UK model)	

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